

Title (en)

HOLDING APPARATUS, ASSEMBLY SYSTEM, SPUTTERING APPARATUS, MACHINING METHOD AND MACHINING APPARATUS

Title (de)

HALTEVORRICHTUNG, MONTAGESYSTEM, SPATTERVORRICHTUNG, BEARBEITUNGSVERFAHREN UND BEARBEITUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE MAINTIEN, SYSTÈME D'ASSEMBLAGE, APPAREIL DE VAPORISATION ET PROCÉDÉ ET DISPOSITIF D'USINAGE

Publication

EP 1944122 A4 20140730 (EN)

Application

EP 06796794 A 20060825

Priority

- JP 2006316721 W 20060825
- JP 2005245439 A 20050826

Abstract (en)

[origin: EP1944122A1] Because an electromagnetic chuck (20) supplies current to a specific microcoil among a plurality of microcoils (MC) and makes an object (M) exert an electromagnetic force working together with a magnet of the object (M), the object (M) can be held in a state where the object is set at a desired position (a position that corresponds to the microcoil to which current has been supplied) on a base surface. Further, by gas that blows out from a gas supply passage (42), a levitation force is given to the object (M), which can reduce effects of a friction force that acts between the object (M) and an upper surface of the electromagnetic chuck when the position of the object is set.

IPC 8 full level

B23Q 3/15 (2006.01); **B23K 1/00** (2006.01); **B25B 11/00** (2006.01); **B81C 3/00** (2006.01); **C23C 14/04** (2006.01); **C23C 14/34** (2006.01); **C23C 14/50** (2006.01); **H01F 7/20** (2006.01)

CPC (source: EP KR)

B23K 11/04 (2013.01 - EP); **B23K 11/18** (2013.01 - EP); **B23Q 3/15** (2013.01 - KR); **B25B 11/002** (2013.01 - EP); **B81C 3/00** (2013.01 - KR); **B81C 3/008** (2013.01 - EP); **C23C 14/04** (2013.01 - EP); **C23C 14/34** (2013.01 - KR); **C23C 14/50** (2013.01 - EP); **H01F 7/206** (2013.01 - EP); **H01L 21/67709** (2013.01 - EP); **B23K 2101/38** (2018.07 - EP); **B23K 2103/12** (2018.07 - EP)

Citation (search report)

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Citation (examination)

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- H. GREENHOUSE: "Design of Planar Rectangular Microelectronic Inductors", IEEE TRANSACTIONS ON PARTS, HYBRIDS, AND PACKAGING, vol. 10, no. 2, 1 June 1974 (1974-06-01), pages 101 - 109, XP055191147, ISSN: 0361-1000, DOI: 10.1109/TPHP.1974.1134841

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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EP 1944122 A1 20080716; **EP 1944122 A4 20140730**; JP 2012125921 A 20120705; JP 2012143867 A 20120802; JP 5007949 B2 20120822; JP 5348631 B2 20131120; JP 5594489 B2 20140924; JP WO2007023941 A1 20090305; KR 20080044239 A 20080520; TW 200720457 A 20070601; TW I414618 B 20131111; WO 2007023941 A1 20070301

DOCDB simple family (application)

EP 06796794 A 20060825; JP 2006316721 W 20060825; JP 2007532197 A 20060825; JP 2012021446 A 20120203; JP 2012079199 A 20120330; KR 20087003446 A 20080212; TW 95131265 A 20060825